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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/690,433	10/18/2000	Kaori Yasufuku	2004/00003	3745

7590

10/01/2002

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EXAMINER

NGUYEN, TRUC T

ART UNIT

PAPER NUMBER

2833

DATE MAILED: 10/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/690,433

Applicant(s)

YASUFUKU ET AL.

Examiner

Truc T. T. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 September 2002.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 and 19-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,6,11,15-17,20 and 21 is/are rejected.
- 7) ☒ Claim(s) 3-5,7-10,12-14,19 and 22-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- ☐ Interview Summary (PTO-413) Paper No(s). _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-2, 6, 11, 15-17, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Cheng et al (US 5,759,057)

Cheng disclose in Figure 1 (see Examiner's Attachment in previous office action No. 10), a connector for connecting a mother board and a plate-like electronic module (11), said connector comprising:

a housing (10) having a main body (12) and a pair of arms (20);

contacts (18) comprise front contact a rear contact each having a stream line section toward air flowing direction and to be connected to conductive;

a first ventilation opening (defined by edge E1 and a top surface of the mother board) is disposed under the main body provides air to flow between the mother board and the electronic module;

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a second ventilation openings (E2, an open area defined by a bottom surface of the electronic module and the top surface of the printed circuit board, and including a gap define by a thickness of a portion 68) are disposed under the pair of arms and enable air to flow between the mother board and the electronic module;

a wall member (a portion of arm 20, denote as E3) are provided under the pair of arm.

3. Claim 18 is rejected under 35 U.S.C. 102(b) as being anticipated by Ito (JP 07-122057).

Ito discloses a method for cooling an electronic module (1) fitted to a connector, wherein a ventilation means (4a) is provided in a housing means (A) to hold the electronic module and at least one of air suction means (6) and air blow means (3) is set with respect to said ventilation means so that an airflow passing through said connector can be produced over the electronic module fitted to the connector.

Response to Arguments

4. Applicant's arguments filed 9/11/2002 have been fully considered but they are not persuasive. Because:

a) in response to applicant's argument on page 2, lines 11-20. The examiner respectfully disagrees. In Cheng's reference, there is not any suggestion that the space E1 is filled with bond material. An air can flow through or escape from any open area regardless of sizes of the open area. In this case, the space E1 is sufficient to allow air flows through. The applicant's broadly limitation "first ventilation opening" do not over come Cheng's patent.

b) in response to applicant's argument on page 2, lines 22-31. The examiner respectfully disagrees. The examiner specifically interprets an open area E2 which is different than the first

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ventilation opening E1. Again, if there is an open area within the connector structure then there is a place for air to escape. The applicant's broadly limitation "second ventilation opening" do not over come Cheng's patent.

Allowable Subject Matter

5. Claims 3-5, 7-10, 12-14 and 19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Regarding claims 3 and 10, the prior art of record fails to teach a rectifying means has an opening to take in air.

Regarding claim 4, the prior art of record fails to teach supporting means provided at an ends of the pair of arms for an end of the electronic module to rest on.

Regarding claim 5, the prior art of record fails to teach the second ventilation means has a configuration to extend in opening toward outside.

Regarding claims 7-9 and 18, the prior art of record fails to teach attachment portions are formed at front and rear portions of the pair of arms to interconnected pair of arms of two or more adjacent connectors.

Regarding claim 12, the prior art of record fails to teach a closure means to close space between the front contact and rear contacts.

Regarding claims 13-14, the prior art of record fails to teach a dustproof means provided at the front and rear contacts.

Conclusion

6. This is a Final Action of applicant's earlier Application No. 09/690,433. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Truc T. T. Nguyen whose telephone number is 703-306-4004. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on 703-308-2319. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

T. Nguyen
September 24, 2002

P. Bradley
P. AUSTIN BRADLEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800